

DERWENT-ACC-NO: 2002-359111

DERWENT-WEEK: 200309

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TITLE: Refrigerator with ejector instead of expansion
apparatus, absorbs and discharges much more
heat by
circulating refrigerant with the same mass flow

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ABSTRACTED-PUB-NO: KR2001108738A

BASIC-ABSTRACT:

NOVELTY - The refrigerator having an ejector is provided to absorb
and
discharge much more heat by circulating refrigerant with the same
mass flow,
and to improve the performance of the refrigerator by increasing the
efficiency

of a compressor with reducing mass flow.

DETAILED DESCRIPTION - The refrigerator is composed of a compressor (31) generating high-temperature and high-pressure refrigerant gas from low-temperature and low-pressure refrigerant; a condenser (32) generating low-temperature and high-pressure liquid refrigerant by cooling refrigerant from the compressor; an ejector (33) mixing liquid refrigerant from the condenser and low-pressure refrigerant gas from an evaporator (35); a separator (34) moving liquid refrigerant to the evaporator and refrigerant gas to the compressor by separating refrigerant mixture; the evaporator absorbing heat by vaporizing liquid refrigerant from the separator; and valves (41,42,43) regulating flow rate of pipes for normal operation of the refrigerator. The efficiency of the compressor and the performance of the refrigerator are improved by circulating refrigerant with the same mass flow.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: REFRIGERATE EJECT INSTEAD EXPAND APPARATUS ABSORB DISCHARGE MORE

HEAT CIRCULATE REFRIGERATE MASS FLOW

DERWENT-CLASS: Q75 X27

EPI-CODES: X27-F02A; X27-F03;

